



# Bill of Materials for the LV5061VGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Step Down Switching Controller	-	-	SSOP16	ON Semiconductor	LV5061V	No	Yes
L1	1	Inductor	10uH / 4.3A	10%	-	TOKO INC	1217AS-H-100M	Yes	Yes
R1	1	Output current sensing resistor	30kohms	1%	3216	Panasonic	ERJ8BWFR030V	Yes	Yes
R2	1	Overcurrent limit set resistor	2.7kohms	5%	1608	KOA	RK73B1JTDD272J	Yes	Yes
R3	1	Resistor for Pull-up VIN	1Mohms	5%	1608	KOA	RK73B1JTDD105J	Yes	Yes
R4	1	Setting Vout Voltage resistor	0ohms	-	1608	KOA	RK73Z1JTDD	Yes	Yes
	1		470kohms	1%	1608	KOA	RK73H1JTDD4703F	Yes	Yes
	1		160kohms	1%	1608	KOA	RK73H1JTDD1603F	Yes	Yes
R5	1								
R6	1	Resistor for Comparator voltage	39kohms	5%	1608	KOA	RK73B1JTDD393J	Yes	Yes
R7	1	Resistor to set Frequency	390kohms	5%	1608	KOA	RK73B1JTDD394J	Yes	Yes
R8	DNP	DNP	-	-	-	-	-	Yes	Yes
R9	1	Resistor for Pull-up VIN	100kohms	5%	1608	KOA	RK73B1JTDD104J	Yes	Yes
C1	2	Capacitor for Vin stability	10uF / 25V	10%	3216	Murata	GRM31CB31E106K	Yes	Yes
C2	3	Capacitor for Vout stability	10uF / 6.3V	10%	2012	TDK	C2012JB0J106M	Yes	Yes
C3	1	Capacitor for VPDR stability	1uF / 25V	10%	1608	Murata	GRM188B31E105K	Yes	Yes
C5	1	Capacitor for VREF stability	1uF / 25V	10%	1608	Murata Manufacturing	GRM188B31E105K	Yes	Yes
C6	1	Capacitor for Comparator voltage	4.7nF / 50V	10%	1608	Murata	GRM188B11H472K	Yes	Yes
C7	1	Capacitor to set SS time	2.2nF / 50V	10%	1608	Murata	GRM188B11H222K	Yes	Yes
C8	1	Capacitor to set HICCUP time	22nF / 50V	10%	1608	Murata Manufacturing	GRM188B11E223K	Yes	Yes
C9	DNP	DNP	-	-	-	-	-	Yes	Yes
D1	1	Rectifier diode	-	-	-	ON Semiconductor	SB3003CH	No	Yes
Q1	1	Pch MOSFET	-	-	-	ON Semiconductor	CPH6341	No	Yes